

FORM PTO-1449 US Department of 61730 U.S. PTO Commerce Patent and Trademark Office

ATTY DOCKET NO. P41 90273

SERIAL NO. 08/704,467

02/20/97

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT

Gallagher et al.

FILING DATE 08/28/96

GROUP 1511

		U.S. PATEN	T DOCUMENTS		X\_	
EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
MX	5,376,403	12/27/94	Capote et al.	427	96	10/1/91
mx	5,463,190	10/31/95	Carson et al.	174	259	4/4/94

## FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	NONE					

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	mx	_	Gallagher et al. Conductive Adhes	, ABSTRACT	"Transient	Liquid	Phase	Sintering
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GROUP 1800

AND NO OTHERS

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

O-1449	(MODIFIED)		ATTY. DOCKI 5026-101 <sub>D1</sub>	ET NO.	i	serial no. 324,060
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	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATI
AA	2,993,815	7/25/61	TREPTOW	117	212	
AB	3,256,109	6/14/66	BERGER	117	38	
АC	3,410,714	11/12/68	JONES	117	46	
AD	3,679,439	7/25/72	MILGRAM	262	- 514	
AE	3,681,135	8/1/72	GRAHAM	106		
AF	3,714,709	2/6/73	LIEDERBACH		626-	
AG	3,791,027	2/12/74	ANGELO et al.		<del></del>	
AH	3,800,020	3/26/74	PARFET			•
AI	3,801,364	4/2/74	KOJINA et al.		<del></del> -	
AJ	3,808,046	4/30/74	DAVEY			
AK	3,857,798	12/31/74	WALL et al.		<u>_</u>	
	F	OREIGN PAT	TENT DOCUMENTS		3.1	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AL	134,737	3/24/60	USSR		•	X
AM	237,840	7/30/86	GERMANY			<u>X</u>
AN	239,901	32387	EPO		· ·	
AO	261,868	11/9/88	GERMANY		-	X
AP	1,190,736	7/23/85	CANADA			
0	THER ART (INCLUDIN	G AUTHOR,	TITLE, DATE, PER	TINENT PAGE	S, ETC.)	
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AS "E	ectricity-Carrying Ink U	sed in Circui	t Boards" Wall Stree	et Journal (9/28/	88)	
AT "P	rotatyne Tool Turns Out	Multilevel C	irquit Roards" Flacts	onia Design (5)	25/90)	
4	- Tool Turns Out	. Municies C	icuit boatus Electi	onic Design (5/	43/87)	
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tion if	not in conformance and	not consider	ed. Include copy of	this form with	nevt comm	unication to
	PATENTI STAT SEVER  CE DES  AA  AB  AC  AD  AE  AF  AG  AH  AI  AJ  AK  AL  AM  AN  AO  AP  O  AR Fe  R: Initia	PATENTS AND PUBLICATIONS STATEMENT  SEVERAL SHEETS IF NECES  CE DESIGNATION  DOCUMENT NUMBER  AA 2,993,815  AB 3,256,109  AC 3,410,714  AD 3,679,439  AE 3,681,135  AF 3,714,709  AG 3,791,027  AH 3,800,020  AI 3,801,364  AJ 3,808,046  AK 3,857,798  F  DOCUMENT NUMBER  AL 134,737  AM 237,840  AN 239,901  AO 261,868  AP 1,190,736  OTHER ART (INCLUDIN AR Feeley, Berbst & Schmecker  AS "Electricity-Carrying Ink U"  AT "Prototype Tool Turns Out	PATENTS AND PUBLICATIONS FOR STATEMENT  SEVERAL SHEETS IF NECESSARY)  CE DESIGNATION  U.S. PATE  DOCUMENT NUMBER  AA 2,993,815 7/25/61  AB 3,256,109 6/14/66  AC 3,410,714 11/12/68  AD 3,679,439 7/25/72  AE 3,681,135 8/1/72  AF 3,714,709 2/6/73  AG 3,791,027 2/12/74  AH 3,800,020 3/26/74  AI 3,801,364 4/2/74  AJ 3,808,046 4/30/74  AK 3,857,798 12/31/74  FOREIGN PATE  DOCUMENT NUMBER DATE  AL 134,737 3/24/60  AM 237,840 7/30/86  AN 239,901 32387  AO 261,868 11/9/88  AP 1,190,736 7/23/85  OTHER ART (INCLUDING AUTHOR,  AR Feeley, Berbst & Schmeckenbecher, Core  AS "Electricity-Carrying Ink Used in Circuit  AT "Prototype Tool Turns Out Multilevel Core	PATENTS AND PUBLICATIONS FOR STATEMENT  SEVERAL SHEETS IF NECESSARY)  DOCUMENT NUMBER AA 2,993,815 AB 3,256,109 AC 3,410,714 AI 11/12/68 AD 3,679,439 AC 3,681,135 AG 3,791,027 AH 3,800,020 AH 3,800,020 AH 3,801,364 AJ 3,808,046 AJ 3,808,046 AJ 3,857,798 AJ 3,808,046 AJ 3,857,798 AJ 3,808,046 AJ 3,857,798 AJ 3,410,714 AJ 3,808,046 AJ 3,808,04	PATENTS AND PUBLICATIONS FOR TTS INFORMATION DISCLOSURE STATEMENT Capote et al.  SEVERAL SHEETS IF NECESSARY) FILING DATE 10/17/94  CE DESIGNATION U.S. PATENT DOCUMENTS  DOCUMENT NUMBER DATE NAME CLASS AA 2,993,815 7/25/61 TREPTOW 11/7  AB 3,256,109 6/14/66 BERGER 11/7  AC 3,410,714 11/12/68 JONES 11/7  AD 3,679,439 7/25/72 MILGRAM 2C2  AE 3,681,135 8/1/72 GRAHAM 10/6  AF 3,714,709 2/6/73 LIEDERBACH 2-9  AG 3,791,027 2/12/74 ANGELO et al. 14%  AII 3,800,020 3/26/74 PARFET 2-4/4  AI 3,801,364 4/2/74 KOJINA et al. 11/7  AI 3,808,046 4/30/74 DAVEY 2-5-72  AK 3,857,798 12/31/74 WALL et al. 25/72  FOREIGN PATENT DOCUMENTS  DOCUMENT NUMBER DATE COUNTRY CLASS  AL 134,737 3/24/60 USSR  AM 237,840 7/30/86 GERMANY  AN 239,901 32387 EPO  AO 261,868 11/9/88 GERMANY  AN 239,901 32387 EPO  AO 261,86	S026-101D1   O8/   PATENTS AND PUBLICATIONS FOR TYS INFORMATION DISCLOSURE STATEMENT   Capote et al.

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LIST O APPLIC	CANTS	NTS AND PUBLICATION DISCLATEMENT	ONS FOR OSURE	APPLICAN Capote et	_		_!	,-	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE .	NAME		CLASS S	UBCLASS	FILING D	
MX	AA <sup>2</sup>	3,904,555	9/9/75	MATSUDA e	et al.	252	514		
1	AB <sup>2</sup>	3,960,777	6/1/76	COYLE	· · · · · · · · · · · · · · · · · · ·	252	514	<u> </u>	
	AC <sup>2</sup>	3,983,075	9/28/76	MARSHALL	et al.	252	511	·	
	$AD^2$	4,000,016	12/28/76	LAZZARINI	et al.	148	23		
	AE <sup>2</sup>	4,001,146	1/4/77	HOROWITZ	<del></del>	252	514		
	AF <sup>2</sup>	4,127,699	11/28/78	AUMILLER (	et al.	428	461		
	AG <sup>2</sup>	4,147,669	4/3/79	SHAHEEN et	t al.	252	512		
	AH <sup>2</sup>	4,186,036	1/29/80	ELMS et al.		427	386		<del></del>
	AI <sup>2</sup>	4,233,103	11/11/80	SHAHEEN		156	331	•	
V	$AJ^2$	4,273,593	6/16/81	MASTRANGE	ELO	148	24		
MK	AK <sup>2</sup>	4,278,702	7/14/81	JENQ		427	96		
		F	OREIGN PAT	ENT DOCUMEN	TS		<del></del>	· ·	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	su	BCLASS	TRANSI YES	LATION NO
m7(	AL <sup>2</sup>	1,455,513	2/12/74	GREAT BRIT	TAIN		•		
WK	AM <sup>2</sup>	2,054,277	6/27/80	GREAT BRIT	AIN		-		,
mK	AN <sup>2</sup>	49-97,846	8/17/74	JAPAN		<u></u>	<del></del>		X
mx	AO <sup>2</sup>	50-100,596	8/9/75	JAPAN					X
MK	AP <sup>2</sup>	53-33,389	3/29/78	JAPAN					X
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## FORM PTO-1449 (MODIFIED) ATTY, DOCKET NO. SERIAL NO. 5026-101 D1 08/324,060 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE APPLICANT **STATEMENT** Capote et al. (USE SEVERAL SHEETS IF NECESSARY) FILING DATE GROUP 10/17/94 Unknown REFERENCE DESIGNATION U.S. PATENT DOCUMENTS **EXAMINER** FILING DATE INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF APPROPRIATE $AA^3$ 4,293,451 10/6/81 MK ROSS 252 512 AB<sup>3</sup> 4,327,124 4/27/82 DESMARAIS, JR. 427 96 $AC^3$ 4,352,899 10/5/82 TADA et al. 523 451 $AD^3$ 4,353,816 **TWASA** 10 (12/12/82 252 (12 AE<sup>3</sup> 4,368,281 1/11/83 BRUMMETT et al. 523 458 AF<sup>3</sup> 4,396,666 8/2/83 ERNSBERGER 428 208 $AG^3$ 4,400,214 8/23/83 OGAWA et al. 252 512 AH<sup>3</sup> 4,415,486 11/15/83 BOONSTRA et al. 252 514 $AI^3$ 4,429,657 2/7/84 DESMARAIS, JR. 118 114 $AJ^3$ 4,457,861 7/3/84 DESMARAIS, JR. 514 252 AK<sup>3</sup> 4,459,166 wΚ 7/10/84 DIETZ et al. 156 89 FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER TRANSLATION DATE COUNTRY CLASS SUBCLASS NO AL<sup>3</sup> 53-133,799 11/21/78 **JAPAN** MX AM<sup>3</sup> 54-24,811 2/24/79 **JAPAN** MK $\mathbf{X}^{-}$ AN<sup>3</sup> 56-32,605 4/2/81 **JAPAN** -mx $\overline{\mathbf{X}}$ $AO^3$ 57-113.505 7/15/82 JAPAN MX $AP^3$ 57-208,002 12/21/82 JAPAN MX X OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) AR<sup>3</sup> $AS^3$ AT<sup>3</sup>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**EXAMINER** 

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MK	AA <sup>4</sup>	4,496,475	/ p/29/85	ABRAMS		252		II AII KOI KIAIE
1	AB <sup>4</sup>	4,533,685	8/6/85	HUDGIN et	al.			
	AC <sup>4</sup>	4,557,857	12/10/85	SORENSEN		523 252		
	AD <sup>4</sup>	4,564,563	1/14/86	MARTIN et a	il.	252		
	AE4	4,575,432	3/11/86	LIN et al.		428	456	-
	AF4	4,578,425	3/25/86	SANTORELL	I	525	-109	<del>-</del>
	AG <sup>4</sup>	4,581,158	4/8/86	LIN		252		<u>·</u>
	AH <sup>4</sup>	4,592,861	6/3/86	BEKELE et a	ı.	252	511	<del></del>
	AI <sup>4</sup>	4,639,396	1/27/87	SEMSARZAD	ЕН	428	<i>511</i> 313	
$\overline{V}$	AJ <sup>4</sup>	4,652,398	3/24/87	GOSWAMI et	al.	252	514	
mx	AK <sup>4</sup>	4,673,532	6/16/87	BARAJAS et a	al.	252	512	<del></del>
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS		SUBCLASS	TRANSLATION YES NO
M7(	AL <sup>4</sup>	58-42,651	3/12/83	JAPAN				X
1	AM <sup>4</sup>	58-61,144	4/12/83	JAPAN				X
	AN <sup>4</sup>	58-104,969	6/22/83	JAPAN		•		X
	AO <sup>4</sup>	58-127,742	7/29/83	JAPAN		<del></del>		X
MK	AP <sup>4</sup>	59-49,272	3/21/84	JAPAN				X
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LIST (	CANTS	ENTS AND PUBLICATION DISCLEMENT	ONS FOR OSURE	APPLICAN Capote et			.	<u>_</u> .	
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EXAMINER INITIAL	1	DOCUMENT NUMBER	DATE	NAME		CLASS SUI		FILING I	
MK	AA <sup>5</sup>	4,678,602	7/7/87	TANAKA et a	ai.		BCLASS 1 713	IF APPR	JPKIAT
1	AB <sup>5</sup>	4,680,141	7/14/87	BARAJAS					
	AC <sup>5</sup>	4,683,653	8/4/87	IWASA		29	512 830	·····	
	AD <sup>5</sup>	4,696,764	9/29/87	YAMAZAKI		252	503		•
	AE <sup>5</sup>	4,705,647	11/10/87	YAMAGUCHI	et al.	252	512		<del>:</del> _
	AF <sup>5</sup>	4,731,130	3/15/88	O'LEARY			24		<del></del>
	AG <sup>5</sup>	4,732,702	3/22/88	YAMAZAKI e	t al.		512		
	AH <sup>5</sup>	4,733,018	3/22/88	PRABHU et a	ıl.		8.5		
	AI <sup>5</sup>	4,740,252	4/26/88	HASAGAWA	et al.		24	············	
	AJ <sup>5</sup>	4,756,756	7/12/88	CASSAT			20		
mk.	AK <sup>5</sup>	4,765,929	8/23/88	SHAFFER		<del></del>	<del>-</del>		
		F	OREIGN PA	TENT DOCUMENT	rs		<u>`</u>	<del></del>	
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MK	AL <sup>5</sup>	59-100,176	6/9/84	JAPAN		<del></del>	-		X
	AM <sup>5</sup>	59-166,542	9/19/84	JAPAN			<del></del>		X
	AN <sup>5</sup>	60-149,670	8/7/85	JAPAN				<del></del>	· X
	AO <sup>5</sup>	60-243,171	12/3/85	JAPAN					<u></u>
mx	AP <sup>5</sup>	60-245,742	12/5/85	JAPAN					<u>x</u>
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LIST O	ANTS	INTS AND PUBLICATION DISCLATEMENT	ONS FOR OSURE	APPLICANT Capote et al.	i_	30/324,000
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INTTIAL		DOCUMENT NUMBER	DATE	NAME	CLASS SUBCL	FILING DATE ASS IF APPROPRIAT
MK	AA <sup>6</sup>	4,775,500	10/4/88	FUNAKOSHI et al.	264 22	•
1	AB <sup>6</sup>	4,780,371	10/25/88	JOSEPH et al.	523 US	57
	AC <sup>6</sup>	4,786,437	11/22/88	EHRREICH	·	
	$AD^6$	4,789,411	12/6/88	EGUCHI et al.		4
	AE <sup>6</sup>	4,803,543	2/7/89	INAYOSHI et al.	<u> </u>	2
	AF <sup>6</sup>	4,808,434	2/28/89	BENNETT et al.	4279.	<del></del>
	AG <sup>6</sup>	4,816,184	3/28/89	FUKUDA et al.	252 5	
	AH <sup>6</sup>	4,820,446	4/11/89	PRUD'HOMME		<del></del>
	AI <sup>6</sup>	4,830,779	5/16/89	MAENO et al.		11
1	AJ <sup>6</sup>	4,836,955	6/6/89	EHRREICH		12
-WK	AK6	4,859,268	8/22/89	JOSEPH et al.		15,5
		F	OREIGN PAT	TENT DOCUMENTS	156 Z	,,,,,
		DOCUMENT NUMBER	DATE	COUNTRY CLASS	SUBCLA	SS TRANSLATION YES NO
MK	AL <sup>6</sup>	61-57,660	3/24/86	JAPAN		<u> </u>
1	AM <sup>6</sup>	61-261,375	11/19/86	JAPAN	<u>.</u> .	X
	AN <sup>6</sup>	61-287,974	12/18/86	JAPAN		X
<del></del>	AO <sup>6</sup>	62-156,176	7/11/87	JAPAN		<u> </u>
-mK	AP <sup>6</sup>	62-160,603	7/16/87	JAPAN		<u> </u>
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MK	AA <sup>7</sup>	4,872,928	10/10/89	JACOBS		148	24	ii iu i koi k
4	AB <sup>7</sup>	4,874,548	10/17/89	HAJOVSKY		252	<del></del>	
	AC <sup>7</sup>	4,880,570	11/14/89	SANBORN				
	AD <sup>7</sup>	4,882,227	11/21/89	IWASE et a	1.	<u>152</u> 428	<u>512</u> 407	
	AE <sup>7</sup>	4,888,135	12/19/89	TSUNAGA (	et al.	252	512	
	AF <sup>7</sup>	4,894,184	1/16/90	FUKUOKA	et al.			
	AG <sup>7</sup>	4,940,498	7/10/90	RUBIN		252 148	<del>-512</del> 23	
	AH <sup>7</sup>	4,971,727	11/20/90	TAKAHASH	I et al.		511	· · · · · · · · · · · · · · · · · · ·
1	ΑI	4,996,005	2/26/91	SAITO et al	•	252 252	517	· · · · · · · · · · · · · · · · · · ·
WK	$AJ^7$	3,502,609	3/24//70	BARIE et	al.	260	37	<u> </u>
	AK <sup>7</sup>	F	OREIGN PAT	ENT DOCUMEN	VTS			
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mK	AL <sup>7</sup>	63-39,947	2/20/88	JAPAN				YES NO
1	AM <sup>7</sup>	63-81,185	4/12/88	JAPAN			-	X
_	AN <sup>7</sup>	63-125,582	5/28/88	JAPAN				X
<u> </u>	AO <sup>7</sup>	63-223,072	9/16/88	JAPAN				x
hK	AP <sup>7</sup>	63-235,369	9/30/88	JAPAN				$\frac{x}{x}$
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MK	AN <sup>8</sup>	63-301,405	12/8/88	JAPAN			Х
MX	AO <sup>8</sup>	64-81,866	3/28/89	JAPAN			X
WK	AP <sup>8</sup>	1-204,966	8/17/89	JAPAN			X
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MK	AL <sup>9</sup>	1-132,652	5/25/89	JAPAN			X
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